

In the claims:

Please cancel claim 18 and amend claims 19, 20, 22, 23, and 25 as follows:

Sub D1
~~19. (Amended) A thin film or coated material having a nanostructured material with a particle size of less than 100 nm and containing an oxide selected from the group consisting of alumina, zirconia, yttria, and mixtures thereof.~~

b2
~~20. (Amended) A multilayer thin film or coated material having a nanostructured material with a particle size of less than 100 nm and containing an oxide selected from the group consisting of alumina, zirconia, yttria, and mixtures thereof.~~

b3 Sub C1
~~22. (Amended) The multilayered thin film or coated material of Claim 21, wherein the layers are integrated by graded interfaces rather than abrupt interfaces so as to permit the compatibility of multilayered materials.~~

b3 Sub C2
~~23. (Amended) The multilayered coated material according to Claim 22, wherein the multilayered materials are selected from the group consisting of ceramics-ceramics; metal-ceramics; metal-metal; organic-inorganic and mixtures thereof.~~

*Sub C1
b4*
~~25. (Amended) The graded thin film or coated material of Claim 20 having a nanostructured graded material and fine scale grading, both compositionally and microstructurally~~